

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P691589

Luminaire Tested: **CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE II OPTIC AND NEMA REFRACTOR WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5203 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

Input Watts (W): 53.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



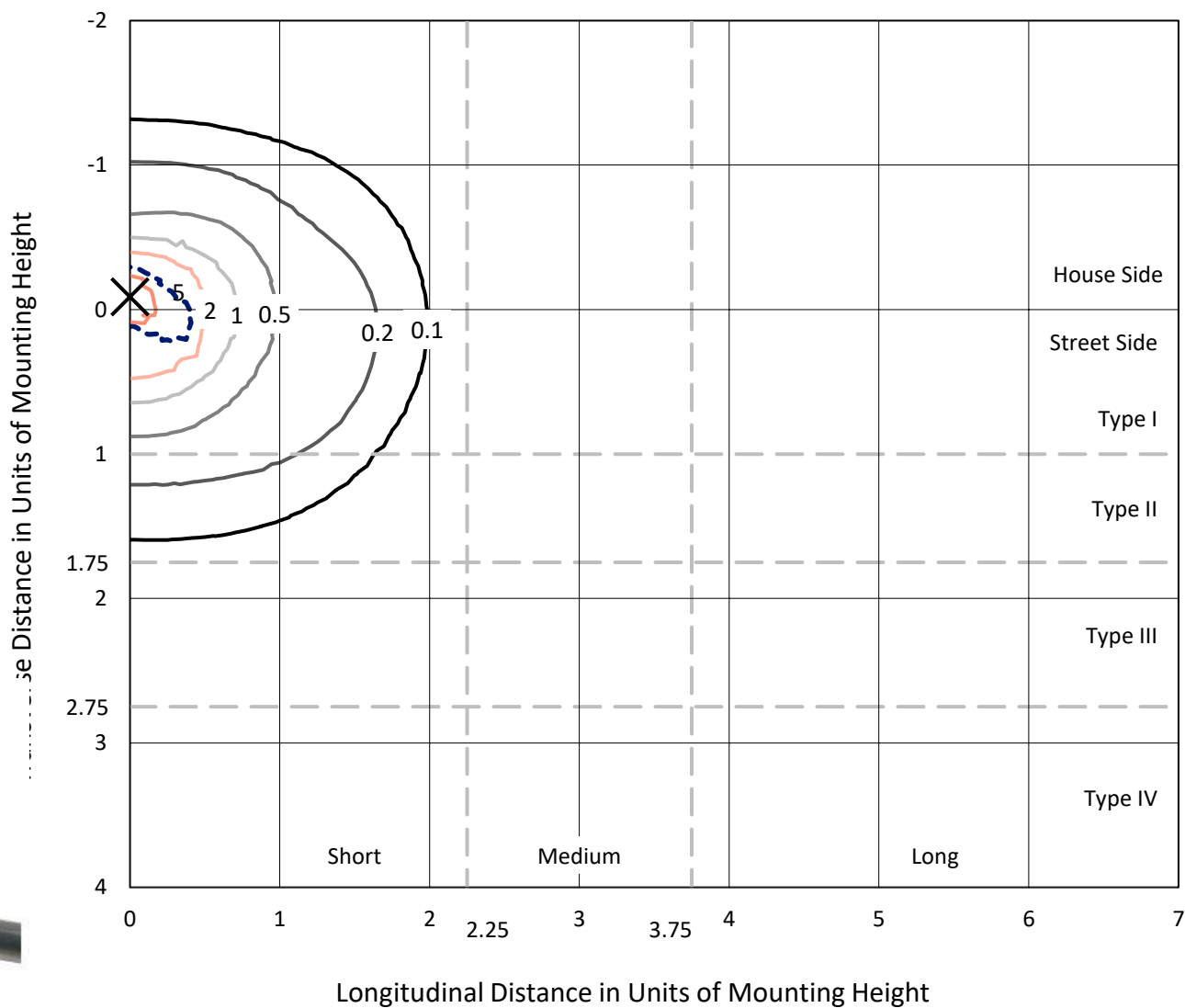
REPORT NUMBER: P691589

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

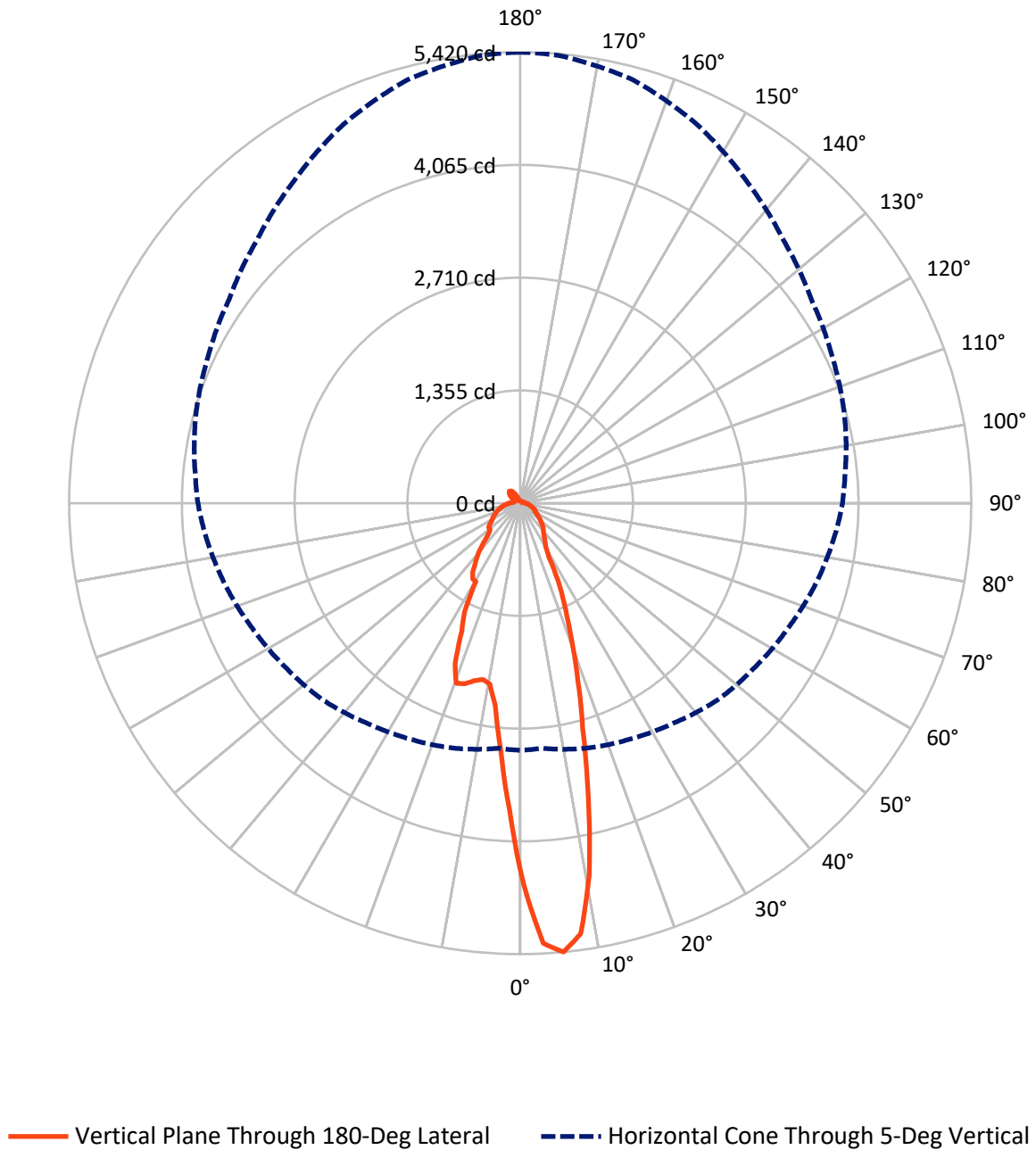


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type I - Short - N/A

REPORT NUMBER: P691589

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691589

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

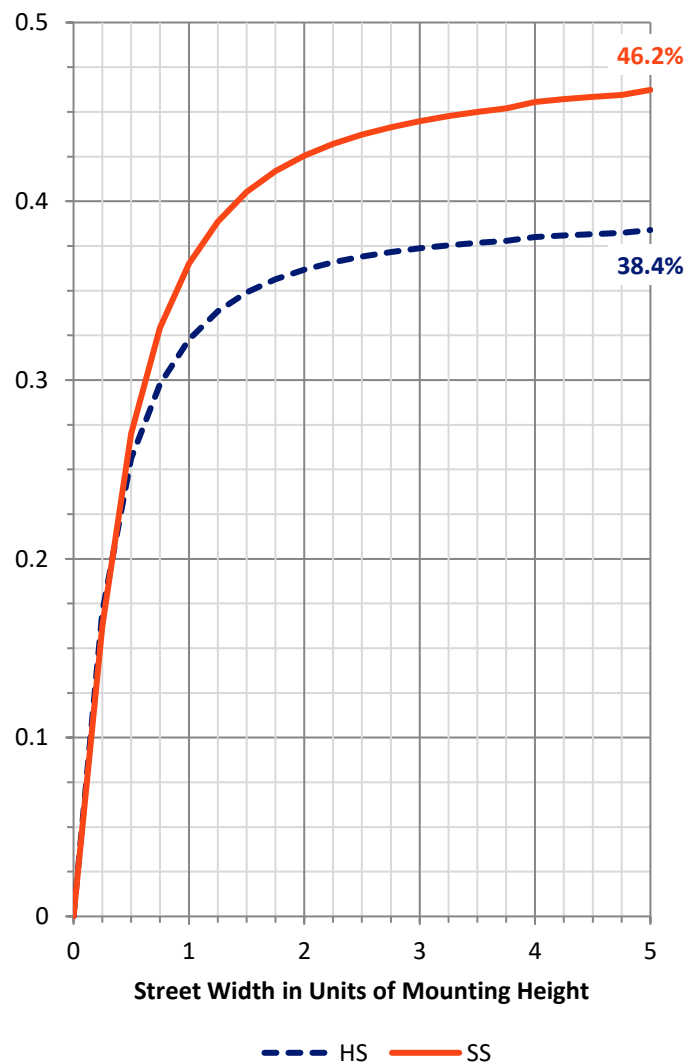
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2050.4	240.7	2291.2
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2464.3	447.5	2911.8
	% Fixture	47.4	8.6	56.0
Total	Lumens	4514.7	688.2	5203.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	6.8
10°-20°	751.3	14.4
20°-30°	817.6	15.7
30°-40°	598.5	11.5
40°-50°	503.2	9.7
50°-60°	511.0	9.8
60°-70°	434.4	8.3
70°-80°	324.1	6.2
80°-90°	220.6	4.2
90°-100°	132.5	2.5
100°-110°	76.0	1.5
110°-120°	69.9	1.3
120°-130°	101.6	2.0
130°-140°	139.7	2.7
140°-150°	115.7	2.2
150°-160°	47.1	0.9
160°-170°	5.8	0.1
170°-180°	0.0	0.0
0°-90°	4514.7	86.8
0°-180°	5203.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691589

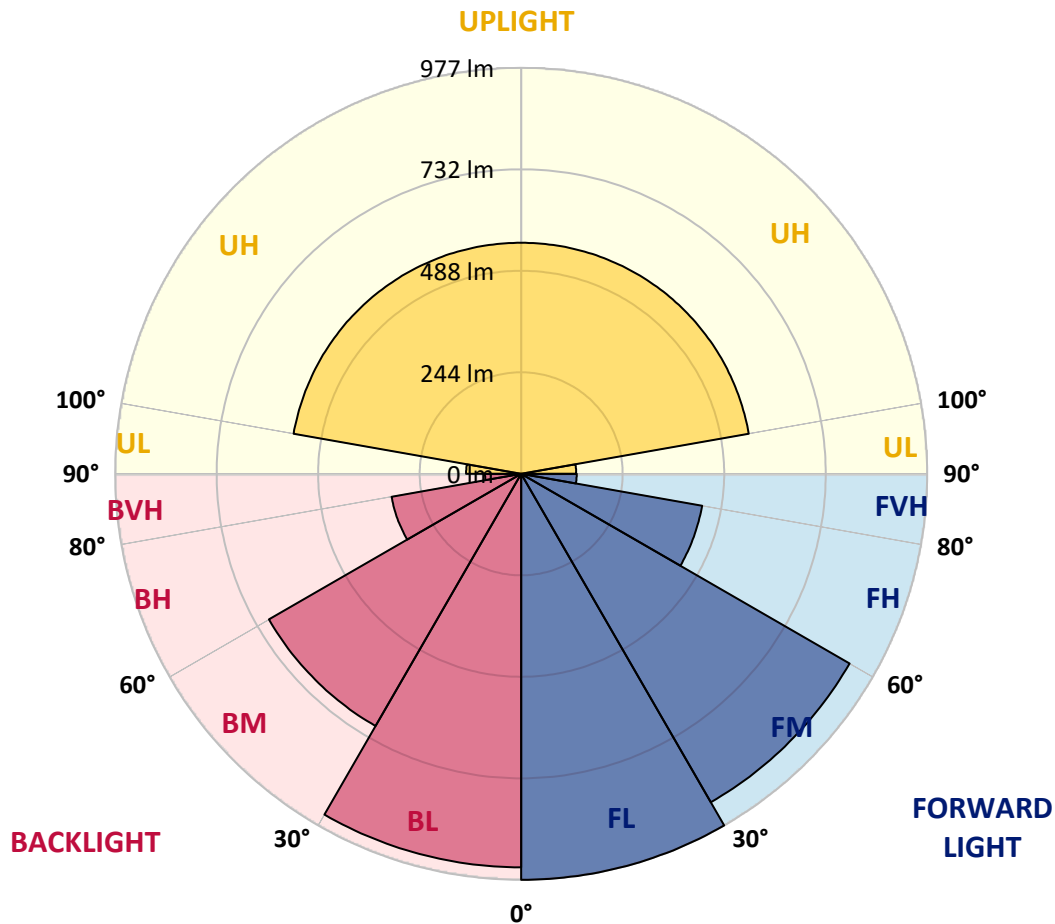
CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	976.5	18.8			
FM	(30°-60°)	912.2	17.5			
FH	(60°-80°)	442.0	8.5			G0/660
FVH	(80°-90°)	133.6	2.6			G2/225
BL	(0°-30°)	946.4	18.2	B2/1000		
BM	(30°-60°)	700.5	13.5	B1/1000		
BH	(60°-80°)	316.5	6.1	B1/500		G1/500
BVH	(80°-90°)	87.0	1.7			G1/100
UL	(90°-100°)	132.5	2.5		U3/500	
UH	(100°-180°)	555.8	10.7		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



REPORT NUMBER: P691589

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8
2.5°	3688.7	3681.8	3732.7	3744.3	3749.0	3802.2	3874.1	3922.7	4010.8	4096.5	4131.3
5°	2970.4	2956.5	3049.2	3128.0	3223.0	3348.1	3440.8	3552.0	3684.1	3811.5	3871.8
7.5°	2449.1	2467.6	2599.7	2761.9	2914.8	3063.1	3176.6	3271.6	3348.1	3429.2	3445.4
10°	2203.5	2219.7	2349.5	2504.7	2646.0	2796.7	2894.0	2975.1	3023.7	3084.0	3104.8
12.5°	2164.1	2175.7	2263.7	2372.6	2479.2	2615.9	2738.7	2829.1	2884.7	2933.4	2938.0
15°	2203.5	2208.1	2261.4	2333.2	2425.9	2539.5	2680.8	2782.8	2845.3	2866.2	2861.5
17.5°	2268.4	2268.4	2293.9	2354.1	2442.1	2551.0	2685.4	2789.7	2854.6	2863.8	2845.3
20°	2296.2	2300.8	2317.0	2384.2	2463.0	2562.6	2697.0	2785.1	2836.0	2810.6	2778.1
22.5°	2087.6	2078.4	2122.4	2263.7	2439.8	2618.2	2745.7	2845.3	2873.1	2787.4	2717.9
25°	1689.1	1693.7	1721.6	1791.1	1927.8	2092.3	2375.0	2678.5	2889.3	2856.9	2752.6
27.5°	1473.6	1459.7	1466.7	1478.3	1459.7	1425.0	1457.4	1450.5	1445.8	1529.2	1538.5
30°	1082.1	1084.4	1096.0	1116.8	1160.8	1225.7	1295.2	1334.6	1369.4	1434.2	1425.0
32.5°	1075.1	1077.4	1084.4	1102.9	1126.1	1170.1	1214.1	1230.3	1267.4	1320.7	1304.5
35°	1005.6	998.6	1017.2	1033.4	1040.3	1058.9	1093.6	1116.8	1140.0	1177.1	1167.8
37.5°	892.1	894.4	931.4	956.9	963.9	989.4	1021.8	1040.3	1065.8	1098.3	1082.1
40°	794.7	797.1	841.1	868.9	885.1	919.9	968.5	991.7	1033.4	1058.9	1040.3
42.5°	683.5	692.8	722.9	755.4	764.6	785.5	817.9	848.0	901.3	936.1	924.5
45°	570.0	574.6	595.5	627.9	641.8	665.0	695.1	722.9	764.6	792.4	790.1
47.5°	502.8	507.4	526.0	553.8	581.6	611.7	644.1	671.9	711.3	734.5	725.2
50°	475.0	479.6	502.8	535.2	570.0	609.4	648.8	678.9	716.0	729.9	718.3
52.5°	479.6	479.6	512.1	553.8	602.4	655.7	704.4	741.4	771.6	780.8	755.4
55°	454.1	461.1	495.8	553.8	627.9	711.3	794.7	873.5	917.5	908.3	859.6
57.5°	414.7	421.7	447.2	509.7	588.5	688.2	806.3	903.6	956.9	963.9	915.2
60°	391.6	396.2	419.4	468.0	537.6	618.6	725.2	804.0	864.3	882.8	848.0
62.5°	370.7	375.4	393.9	431.0	481.9	544.5	604.7	655.7	704.4	722.9	709.0
65°	347.6	349.9	368.4	400.8	442.6	495.8	546.8	583.9	623.3	634.9	618.6
67.5°	324.4	326.7	342.9	373.0	412.4	461.1	500.5	542.2	581.6	590.8	579.3
70°	303.5	305.8	319.8	347.6	382.3	428.7	465.7	493.5	532.9	542.2	528.3
72.5°	282.7	285.0	298.9	324.4	356.8	398.5	431.0	458.8	491.2	493.5	481.9
75°	261.8	264.1	275.7	298.9	326.7	368.4	398.5	421.7	449.5	449.5	435.6
77.5°	238.7	243.3	252.6	273.4	298.9	338.3	366.1	389.3	412.4	410.1	396.2
80°	217.8	220.1	229.4	247.9	271.1	308.2	336.0	354.5	375.4	373.0	361.5
82.5°	194.6	196.9	203.9	222.4	243.3	278.0	305.8	324.4	342.9	338.3	326.7
85°	171.5	173.8	183.0	196.9	217.8	250.2	275.7	294.3	308.2	303.5	294.3
87.5°	152.9	152.9	159.9	173.8	192.3	222.4	245.6	264.1	275.7	273.4	264.1
90°	132.1	134.4	139.0	150.6	166.8	192.3	215.5	231.7	243.3	238.7	229.4
92.5°	115.9	115.9	120.5	132.1	146.0	169.1	190.0	203.9	213.2	210.8	203.9
95°	99.6	101.9	104.3	113.5	125.1	143.7	162.2	176.1	185.4	183.0	178.4
97.5°	88.0	90.4	92.7	97.3	108.9	120.5	136.7	148.3	157.6	155.2	150.6
100°	81.1	81.1	81.1	85.7	92.7	101.9	113.5	122.8	127.4	129.8	125.1
102.5°	74.1	74.1	76.5	76.5	81.1	85.7	92.7	99.6	101.9	101.9	101.9
105°	71.8	71.8	74.1	74.1	76.5	78.8	83.4	85.7	88.0	88.0	85.7
107.5°	71.8	71.8	71.8	71.8	74.1	76.5	78.8	81.1	81.1	81.1	78.8
110°	74.1	74.1	74.1	74.1	74.1	76.5	76.5	78.8	78.8	76.5	76.5

REPORT NUMBER: P691589

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	76.5	76.5	76.5	76.5	76.5	78.8	78.8	78.8	78.8	76.5	76.5
115°	81.1	81.1	81.1	83.4	83.4	83.4	83.4	83.4	83.4	81.1	78.8
117.5°	90.4	90.4	90.4	90.4	92.7	92.7	92.7	92.7	92.7	88.0	88.0
120°	101.9	99.6	101.9	104.3	106.6	106.6	106.6	106.6	106.6	101.9	99.6
122.5°	113.5	113.5	115.9	120.5	125.1	127.4	125.1	125.1	125.1	118.2	115.9
125°	127.4	127.4	134.4	143.7	150.6	152.9	150.6	150.6	150.6	143.7	139.0
127.5°	143.7	143.7	152.9	166.8	178.4	185.4	183.0	183.0	183.0	171.5	164.5
130°	159.9	159.9	173.8	192.3	210.8	215.5	217.8	220.1	220.1	206.2	196.9
132.5°	171.5	173.8	190.0	215.5	238.7	245.6	252.6	254.9	254.9	238.7	224.8
135°	183.0	185.4	206.2	236.3	261.8	278.0	285.0	287.3	289.6	271.1	254.9
137.5°	190.0	192.3	215.5	250.2	275.7	296.6	312.8	317.4	317.4	296.6	275.7
140°	190.0	192.3	217.8	250.2	278.0	303.5	322.1	331.3	331.3	310.5	291.9
142.5°	185.4	190.0	213.2	245.6	273.4	298.9	319.8	329.0	329.0	310.5	291.9
145°	176.1	178.4	201.6	229.4	257.2	287.3	310.5	319.8	319.8	301.2	282.7
147.5°	159.9	162.2	180.7	206.2	234.0	264.1	287.3	298.9	296.6	280.4	264.1
150°	139.0	139.0	155.2	176.1	203.9	231.7	254.9	266.5	266.5	250.2	236.3
152.5°	113.5	113.5	125.1	141.3	164.5	192.3	210.8	222.4	222.4	210.8	199.3
155°	88.0	88.0	97.3	108.9	127.4	148.3	162.2	173.8	173.8	164.5	155.2
157.5°	62.6	62.6	71.8	81.1	95.0	111.2	122.8	129.8	132.1	122.8	118.2
160°	41.7	41.7	46.3	53.3	64.9	76.5	83.4	90.4	92.7	85.7	83.4
162.5°	23.2	23.2	25.5	32.4	39.4	46.3	53.3	57.9	57.9	55.6	53.3
165°	7.0	7.0	9.3	11.6	16.2	20.9	23.2	25.5	27.8	27.8	25.5
167.5°	0.0	0.0	2.3	2.3	2.3	2.3	4.6	4.6	7.0	7.0	7.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P691589

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8
2.5°	4203.1	4332.8	4474.2	4610.9	4777.7	4951.5	5111.4	5220.3	5278.2	5296.7	5296.7
5°	3918.1	4036.3	4140.5	4270.3	4471.9	4733.7	5023.3	5264.3	5401.0	5417.2	5419.5
7.5°	3473.2	3570.5	3679.4	3795.3	3973.7	4207.7	4590.0	4979.3	5201.7	5243.4	5227.2
10°	3109.5	3169.7	3234.6	3278.6	3403.7	3577.5	3837.0	4219.3	4492.7	4525.2	4548.3
12.5°	2940.3	2949.6	2931.0	2940.3	2982.0	3063.1	3190.5	3410.7	3589.1	3619.2	3635.4
15°	2854.6	2808.2	2734.1	2664.6	2627.5	2634.5	2662.3	2752.6	2782.8	2833.7	2810.6
17.5°	2815.2	2710.9	2595.1	2460.7	2377.3	2291.5	2245.2	2229.0	2217.4	2219.7	2240.6
20°	2715.6	2597.4	2412.0	2235.9	2101.5	1983.4	1883.7	1811.9	1772.5	1754.0	1767.9
22.5°	2611.3	2428.2	2210.4	2020.4	1828.1	1677.5	1564.0	1459.7	1401.8	1418.0	1399.5
25°	2613.6	2340.2	2080.7	1830.5	1649.7	1450.5	1269.7	1160.8	1065.8	1084.4	1109.9
27.5°	1647.4	1575.6	1390.2	1244.2	1063.5	963.9	873.5	797.1	743.8	746.1	739.1
30°	1397.2	1323.0	1230.3	1114.5	977.8	861.9	757.7	669.6	618.6	604.7	602.4
32.5°	1290.6	1228.0	1142.3	1028.8	903.6	787.8	683.5	602.4	551.5	549.1	549.1
35°	1149.2	1091.3	1019.5	922.2	815.6	709.0	611.7	542.2	500.5	500.5	498.2
37.5°	1061.2	1010.2	940.7	850.3	755.4	648.8	563.0	500.5	456.5	454.1	456.5
40°	1014.9	961.6	894.4	808.6	713.6	611.7	530.6	465.7	433.3	431.0	428.7
42.5°	922.2	880.5	822.5	743.8	660.4	570.0	493.5	435.6	407.8	405.5	407.8
45°	783.2	753.0	713.6	655.7	586.2	509.7	442.6	398.5	370.7	370.7	370.7
47.5°	718.3	690.5	646.5	588.5	528.3	456.5	400.8	363.8	338.3	338.3	338.3
50°	702.1	667.3	609.4	544.5	479.6	417.1	366.1	329.0	310.5	308.2	310.5
52.5°	725.2	671.9	593.2	516.7	444.9	384.6	336.0	301.2	282.7	282.7	282.7
55°	808.6	711.3	607.1	509.7	424.0	356.8	308.2	273.4	254.9	252.6	254.9
57.5°	864.3	741.4	611.7	502.8	410.1	338.3	285.0	247.9	229.4	227.1	229.4
60°	815.6	716.0	590.8	484.3	398.5	324.4	268.8	231.7	213.2	210.8	210.8
62.5°	676.6	618.6	528.3	437.9	368.4	303.5	252.6	217.8	199.3	196.9	199.3
65°	600.1	549.1	470.4	398.5	338.3	282.7	238.7	208.5	190.0	190.0	190.0
67.5°	558.4	512.1	437.9	368.4	312.8	261.8	220.1	192.3	176.1	176.1	176.1
70°	509.7	463.4	396.2	333.7	282.7	238.7	201.6	173.8	159.9	157.6	159.9
72.5°	468.0	421.7	359.1	301.2	254.9	215.5	183.0	157.6	146.0	143.7	146.0
75°	421.7	377.7	317.4	266.5	227.1	192.3	164.5	141.3	132.1	129.8	129.8
77.5°	382.3	340.6	285.0	238.7	203.9	171.5	146.0	129.8	120.5	118.2	118.2
80°	347.6	308.2	254.9	213.2	180.7	152.9	132.1	115.9	106.6	106.6	106.6
82.5°	310.5	275.7	227.1	187.7	159.9	136.7	115.9	101.9	95.0	95.0	95.0
85°	280.4	245.6	199.3	166.8	139.0	118.2	101.9	90.4	83.4	83.4	83.4
87.5°	247.9	217.8	176.1	146.0	122.8	104.3	88.0	76.5	74.1	71.8	71.8
90°	215.5	187.7	150.6	125.1	104.3	88.0	74.1	64.9	62.6	60.2	60.2
92.5°	192.3	166.8	136.7	113.5	95.0	78.8	69.5	60.2	57.9	57.9	55.6
95°	166.8	146.0	120.5	101.9	85.7	74.1	64.9	57.9	55.6	55.6	53.3
97.5°	143.7	125.1	106.6	92.7	78.8	69.5	60.2	55.6	51.0	51.0	51.0
100°	120.5	106.6	92.7	78.8	71.8	62.6	55.6	51.0	48.7	46.3	46.3
102.5°	97.3	88.0	76.5	69.5	60.2	53.3	48.7	44.0	41.7	41.7	41.7
105°	83.4	76.5	69.5	62.6	55.6	48.7	44.0	39.4	37.1	37.1	37.1
107.5°	76.5	71.8	64.9	57.9	53.3	46.3	41.7	34.8	32.4	34.8	34.8
110°	74.1	69.5	62.6	57.9	51.0	46.3	41.7	32.4	30.1	32.4	32.4

REPORT NUMBER: P691589

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	74.1	69.5	64.9	57.9	53.3	46.3	41.7	32.4	30.1	30.1	30.1
115°	76.5	74.1	67.2	62.6	55.6	48.7	41.7	32.4	30.1	30.1	30.1
117.5°	85.7	81.1	74.1	67.2	60.2	51.0	44.0	32.4	30.1	30.1	30.1
120°	95.0	90.4	83.4	74.1	64.9	55.6	46.3	32.4	27.8	30.1	30.1
122.5°	111.2	104.3	95.0	83.4	71.8	60.2	46.3	34.8	25.5	30.1	30.1
125°	132.1	122.8	108.9	92.7	78.8	64.9	48.7	34.8	27.8	30.1	30.1
127.5°	155.2	143.7	125.1	104.3	85.7	67.2	51.0	34.8	27.8	27.8	30.1
130°	185.4	166.8	141.3	115.9	92.7	71.8	51.0	34.8	27.8	27.8	27.8
132.5°	210.8	187.7	155.2	125.1	97.3	74.1	51.0	34.8	25.5	25.5	25.5
135°	236.3	206.2	166.8	132.1	101.9	74.1	51.0	32.4	25.5	25.5	25.5
137.5°	257.2	217.8	176.1	134.4	101.9	71.8	48.7	30.1	23.2	23.2	23.2
140°	268.8	224.8	178.4	134.4	97.3	69.5	44.0	27.8	20.9	20.9	20.9
142.5°	268.8	222.4	176.1	129.8	92.7	64.9	39.4	23.2	18.5	18.5	18.5
145°	259.5	213.2	166.8	122.8	85.7	57.9	34.8	20.9	13.9	13.9	16.2
147.5°	243.3	196.9	152.9	111.2	76.5	48.7	30.1	16.2	11.6	11.6	11.6
150°	215.5	173.8	132.1	97.3	64.9	41.7	25.5	13.9	9.3	9.3	9.3
152.5°	180.7	143.7	111.2	81.1	53.3	32.4	18.5	11.6	7.0	7.0	7.0
155°	143.7	113.5	88.0	62.6	39.4	25.5	13.9	9.3	7.0	7.0	7.0
157.5°	106.6	85.7	64.9	46.3	30.1	18.5	11.6	7.0	4.6	4.6	4.6
160°	74.1	60.2	44.0	30.1	18.5	11.6	7.0	4.6	2.3	2.3	2.3
162.5°	48.7	37.1	27.8	18.5	11.6	7.0	4.6	2.3	2.3	2.3	2.3
165°	23.2	18.5	13.9	9.3	4.6	4.6	2.3	2.3	0.0	0.0	0.0
167.5°	7.0	4.6	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)